

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P582286

Luminaire Tested: **HCC6W35D010SL-HM63040827-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582286
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6W35D010SL-HM63040827-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

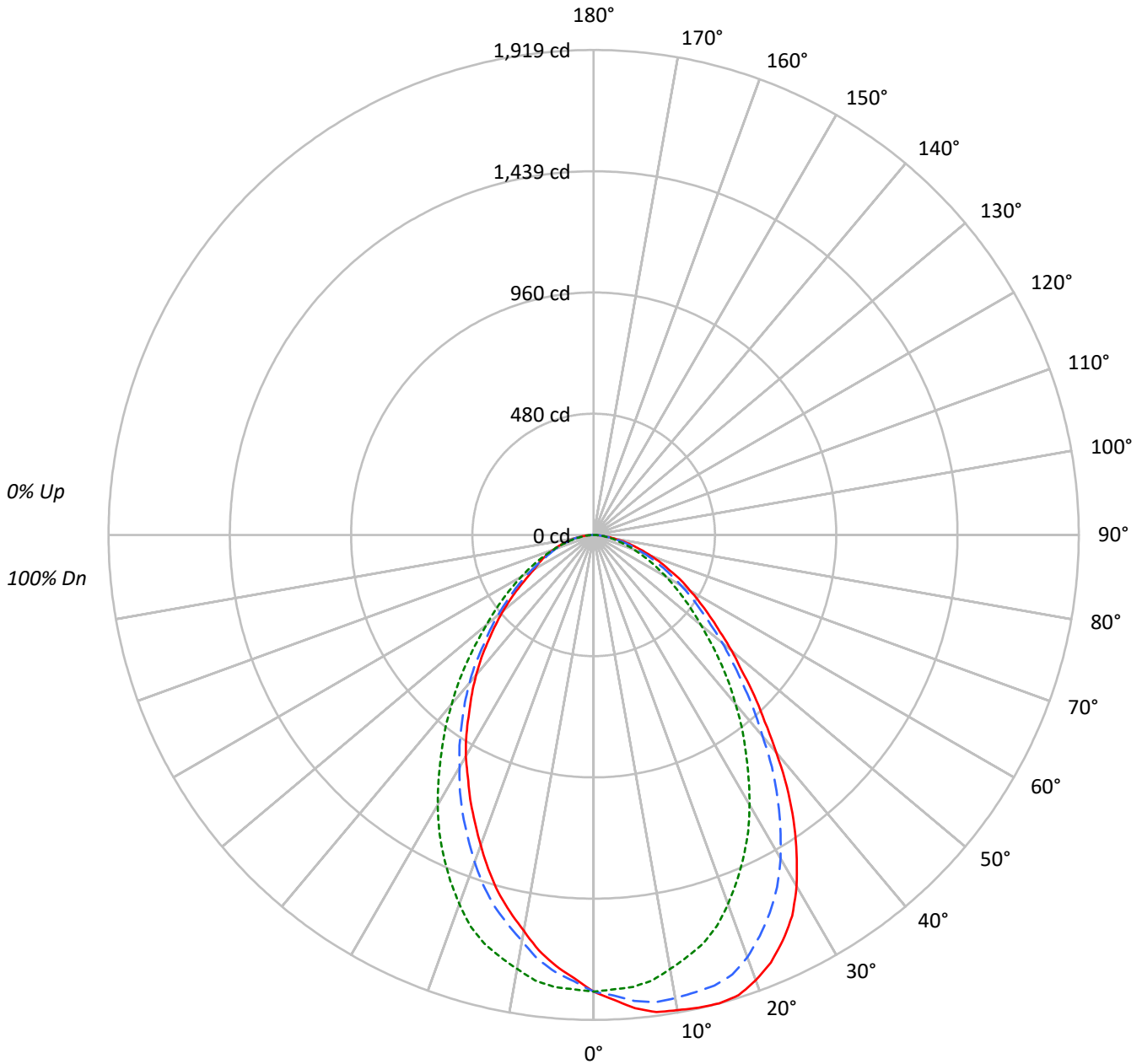
Lumens per Lamp: N/A
Luminaire Lumens: 3366.3 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87					87			
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76					76			
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66					66			
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58					58			
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51					51			
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46					46			
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42					42			
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38					38			
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34					34			
10	58	46	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32					32			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	99071	99071	99071
5°	103467	98778	94227
10°	106283	97081	88548
15°	108911	94972	82963
20°	109402	90670	76196
25°	107105	84888	69881
30°	101617	78063	64048
35°	92287	70155	57460
40°	80415	62481	51697
45°	69581	54680	45447
50°	60783	47086	39828
55°	53695	41384	34178
60°	48264	36269	29592
65°	43221	31547	28719
70°	38596	26896	26896
75°	33487	22664	25248
80°	26866	19194	23014
85°	18367	16794	19876



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.8	5.0
10°-20°	472.1	14.0
20°-30°	658.0	19.5
30°-40°	677.9	20.1
40°-50°	561.9	16.7
50°-60°	403.8	12.0
60°-70°	257.2	7.6
70°-80°	132.0	3.9
80°-90°	33.6	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1300.0	38.6
0°-40°	1977.9	58.8
0°-60°	2943.5	87.4
0°-90°	3366.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3366.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1807	1807	1807	1807	1807	
5°	1880	1851	1795	1737	1712	180
15°	1919	1846	1673	1520	1462	541
25°	1771	1649	1403	1223	1155	811
35°	1379	1267	1048	910	859	857
45°	898	834	705	615	586	695
55°	562	516	433	384	358	506
65°	333	297	243	212	221	334
75°	158	136	107	112	119	169
85°	29	27	27	29	32	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1807.2	1807.2	1807.2	1807.2	1807.2	1807.2	1807.2	1807.2	1807.2
2.5°	1841.2	1833.9	1824.1	1814.5	1799.9	1782.8	1768.2	1763.3	1756.1
5°	1880.2	1870.4	1851.0	1826.6	1795.0	1763.3	1736.6	1719.6	1712.3
7.5°	1904.4	1892.3	1865.6	1824.1	1777.9	1731.7	1692.9	1668.6	1658.8
10°	1909.3	1897.2	1860.7	1804.8	1744.0	1680.7	1632.0	1602.9	1590.7
12.5°	1916.6	1899.6	1853.4	1787.7	1709.9	1637.0	1576.2	1539.6	1527.5
15°	1919.0	1899.6	1846.1	1765.8	1673.4	1585.8	1520.1	1476.4	1461.8
17.5°	1909.3	1887.4	1824.1	1726.9	1622.4	1529.9	1452.1	1405.9	1386.4
20°	1875.3	1851.0	1777.9	1668.6	1554.2	1456.9	1376.7	1328.0	1306.1
22.5°	1831.5	1799.9	1717.1	1600.4	1481.3	1379.0	1298.9	1250.2	1228.3
25°	1770.7	1741.5	1649.1	1525.0	1403.4	1296.4	1223.4	1172.4	1155.3
27.5°	1700.2	1666.1	1571.2	1447.2	1323.1	1216.1	1145.6	1099.4	1077.5
30°	1605.3	1573.7	1478.8	1354.8	1233.2	1133.4	1060.5	1021.6	1011.8
32.5°	1493.4	1466.7	1374.3	1257.4	1140.7	1048.3	987.5	946.2	936.4
35°	1379.0	1347.4	1267.2	1157.8	1048.3	965.6	909.7	873.1	858.6
37.5°	1255.0	1225.8	1157.8	1060.5	963.1	885.3	836.7	805.1	790.5
40°	1123.7	1101.8	1038.6	960.8	873.1	805.1	763.7	737.0	722.4
42.5°	1002.1	980.2	936.4	863.5	790.5	729.7	693.2	668.9	656.7
45°	897.5	878.1	834.3	771.0	705.3	654.2	615.4	598.3	586.2
47.5°	792.9	783.2	744.3	685.8	625.0	581.3	554.6	535.1	525.4
50°	712.7	700.4	664.0	603.2	552.1	518.0	493.8	476.7	467.0
52.5°	629.9	617.8	583.7	532.6	491.3	459.7	435.4	420.8	411.0
55°	561.8	552.1	515.6	469.4	433.0	406.2	384.3	367.3	357.6
57.5°	498.7	488.9	454.8	411.0	379.4	355.1	335.6	321.0	308.9
60°	440.2	433.0	398.9	357.6	330.8	306.5	289.4	277.3	269.9
62.5°	389.2	374.6	345.4	308.9	284.6	265.1	248.1	240.8	245.7
65°	333.2	325.9	296.8	265.1	243.2	223.7	211.6	216.5	221.4
67.5°	287.0	277.3	253.0	223.7	204.3	189.8	182.4	192.2	194.5
70°	240.8	231.1	209.1	184.9	167.8	158.1	158.1	165.4	167.8
72.5°	197.0	189.8	170.3	150.8	138.6	131.3	136.2	141.1	143.5
75°	158.1	150.8	136.2	119.2	107.0	107.0	111.9	116.7	119.2
77.5°	121.6	116.7	102.1	90.0	85.1	85.1	90.0	92.4	94.9
80°	85.1	80.3	72.9	65.7	60.8	65.7	70.5	70.5	72.9
82.5°	55.9	53.6	48.7	43.8	43.8	46.2	48.7	51.1	51.1
85°	29.2	29.2	26.7	24.3	26.7	29.2	29.2	31.6	31.6
87.5°	9.7	9.7	9.7	9.7	12.1	12.1	12.1	12.1	12.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report



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— 0°-180° - - 45°-225° - - - - 90°-270°

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